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GP/1636

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Jin-Soo Kim et al.

Art Unit : 1636

Serial No. : 09/785,632

Examiner : T. McKelvey

Filed : February 16, 2001

Title : ZINC FINGER DOMAINS AND METHODS OF IDENTIFYING SAME

Commissioner for Patents

Washington, D.C. 20231

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This statement is being filed before the receipt of a first Office action on the merits.

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Respectfully submitted,

Date:

Dec. 5, 2002

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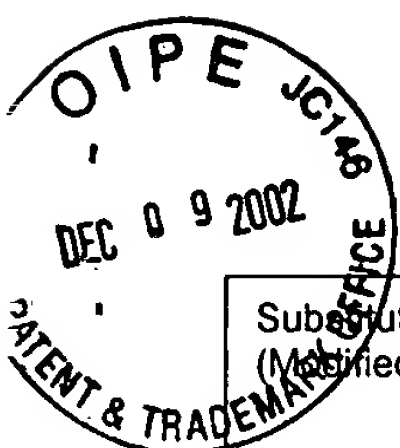
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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12279-002001	Application No. 09/785,632
		Applicant Jin-Soo Kim et al.	
	Filing Date February 16, 2001	Group Art Unit 1636	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	CA						
	CB						
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	CK							
	CL							
	CM							
	CN							
	CO							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	CP	Bartsevich & Juliano, "Regulation of the MDR1 gene by transcriptional repressors selected using peptide combinatorial libraries", <i>Mol. Pharmacol.</i> 58:1-10 (2000)
	CQ	Brent & Ptashne, "A eukaryotic transcriptional activator bearing the DNA specificity of a prokaryotic repressor", <i>Cell</i> 43:729-736 (1985)
	CR	Chevray & Nathans, "Protein interaction cloning in yeast: Identification of mammalian proteins that react with the leucine zipper of Jun", <i>Proc. Natl. Acad. Sci.</i> 89:5789-5793 (1992)
	CS	Choo & Klug, "Physical basis of a protein-DNA recognition code", <i>Curr. Opin. Struct. Biol.</i> 7:117-125 (1997)
	CT	Desjarlais & Berg, "Length-encoded multiplex binding site determination: Application to zinc finger proteins", <i>Proc. Natl. Acad. Sci.</i> 91:11099-11103 (1994)

Examiner Signature	Date Considered
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Other Documents (include Author, Title, Date, and Place of Publication)		
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	CU	Dreier <i>et al.</i> , "Development of zinc finger domains for recognition of the 5'-ANN-3' family of DNA sequences and their use in the construction of artificial transcription factors", <i>J. Biol. Chem.</i> 276:29466-29478 (2001)
	CV	Elrod-Erickson <i>et al.</i> , "High-resolution structures of variant Zif268-DNA complexes: implications for understanding zinc finger-DNA recognition", <i>Structure</i> 6:451-464 (1998)
	CW	Gogos <i>et al.</i> , "Recognition of diverse sequences by class I zinc fingers: Asymmetries and indirect effects on specificity in the interaction between CF2II and A+T-rich sequence elements", <i>Proc. Natl. Acad. Sci. USA</i> 93:2159-2164 (1996)
	CX	Hsu <i>et al.</i> , "Multiple zinc finger forms resulting from developmentally regulated alternative splicing of a transcription factor gene", <i>Science</i> 257:1946-1950 (1992)
	CY	Hudson, Jr. <i>et al.</i> , "The complete set of predicted genes from <i>Saccharomyces cerevisiae</i> in a readily usable form", <i>Genome Res.</i> 7:1169-1173 (1997)
	CZ	Isalan <i>et al.</i> , "A rapid, generally applicable method to engineer zinc fingers illustrated by targeting the HIV-1 promoter", <i>Nat. Biotechnol.</i> 19:656-660 (2001)
	CAA	Jamieson <i>et al.</i> , "In vitro selection of zinc fingers with altered DNA-binding specificity", <i>Biochemistry</i> 33:5689-5695 (1994)
	CBB	Liu <i>et al.</i> , "Regulation of an endogenous locus using a panel of designed zinc finger proteins targeted to accessible chromatin regions", <i>J. Biol. Chem.</i> 276:11323-11334 (2001)
	CCC	Liu <i>et al.</i> , "Validated zinc finger protein designs for all 16 GNN DNA triplet targets", <i>J. Biol. Chem.</i> 277:3850-3856 (2002)
	CDD	Pabo <i>et al.</i> , "Design and selection of novel Cys ₂ His ₂ zinc finger proteins", <i>Annu. Rev. Biochem.</i> 70:313-340 (2001)
	CEE	Pavletich & Pabo, "Zinc finger-DNA recognition: Crystal structure of a Zif268-DNA complex at 2.1 Å", <i>Science</i> 252:809-817 (1991)
	CFF	Ren <i>et al.</i> , "PPAR γ knockdown by engineered transcription factors: exogenous PPAR γ 2 but not PPAR γ 1 reactivates adipogenesis", <i>Genes & Dev.</i> 16:27-32 (2002)
	CGG	Segal <i>et al.</i> , "Toward controlling gene expression at will: Selection and design of zinc finger domains recognizing each of the 5'-GNN-3' DNA target sequences", <i>Proc. Natl. Acad. Sci.</i> 96:2758-2763 (1999)
	CHH	Sera & Uranga, "Rational design of artificial zinc-finger proteins using a nondegenerate recognition code table", <i>Biochemistry</i> 41:7074-7081 (2002)
	CII	Taylor <i>et al.</i> , "Designing zinc-finger ADR1 mutants with altered specificity of DNA binding to T in UAS1 sequences", <i>Biochemistry</i> 34:3222-3230 (1995)
	CJJ	Wang & Reed, "Molecular cloning of the olfactory neuronal transcription factor Olf-1 by genetic selection in yeast", <i>Nature</i> 364:121-126 (1993)
	CKK	Wolfe <i>et al.</i> , "Beyond the "recognition code": Structures of two Cys ₂ His ₂ zinc finger/TATA box complexes", <i>Structure</i> 8:717-723 (2001)
	CLL	Wolfe <i>et al.</i> , "Analysis of zinc fingers optimized via phage display: Evaluating the utility of a recognition code", <i>J. Mol. Biol.</i> 285:1917-1934 (1999)
	CMM	Zhang <i>et al.</i> , "Synthetic zinc finger transcription factor action at an endogenous chromosomal site: Activation of the human erythropoietin gene", <i>J. Biol. Chem.</i> 275:33850-33860 (2000)

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